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Third Edition

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Editor-in-Chief: Hans Ulrich Bergmeyer
Editors: Jürgen Bergmeyer and Marianne Graßl

Volume I	Fundamentals
Volume II	Samples, Reagents, Assessment of Results
Volume III	Enzymes 1: Oxidoreductases, Transferases
Volume IV	Enzymes 2: Esterases, Glycosidases, Lyases, Ligases
Volume V	Enzymes 3: Peptidases, Proteinases and Their Inhibitors
Volume VI	Metabolites 1: Carbohydrates
Volume VII	Metabolites 2: Tri- and Dicarboxylic Acids, Purines, Pyrimidines and Derivatives, Coenzymes, Inorganic Compounds
Volume VIII	Metabolites 3: Lipids, Amino Acids and Related Compounds
Volume IX	Proteins and Peptides
Volume X	Antigens and Antibodies 1
Volume XI	Antigens and Antibodies 2
Volume XII	Drugs and Pesticides
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- - colorimetric method VI:470
- - fluorimetric method VI:458
- - UV-method VI:453, 457
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D-Xylose dehydrogenase
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- determination VI:465, 473
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- determination VI:477
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Zymogens of gastricsins (cf. Pepsins)

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Errata and Additions

Volume I

page 2, line 7 from bottom:

read 1833 instead of 1853

page 112, lines 6 and 7 from top:

read mmol/l instead of mol/l

page 144, first line:

read if there is a multi-

page 145, Fig. 1, ordinate:

read [S], $[S]_b$, $[S]_s$, $[S]_p$ and $[S] = 0$ instead of c, c_b, c_s, c_p and $c = 0$

page 149, line 9 from top:

read as indicated on p. 161.

page 167, lines 10ff. from bottom:

read 10^6 µmol/l. Consequently

$$\frac{V}{1.07 \times K_m} = \frac{V}{1.07 \times 7 \times 10^2} = 0.001335\ V \quad \text{l/min}.$$

Expressing the catalytic activity per unit volume yields $k_1 = 0.001335\ V/\text{V min}^{-1}$ so that for a catalytic concentration of $b = 10^3$ U/l in the assay mixture, $k_1 = 1.335$ min^{-1}. The reaction ...

replace in the following eqns. 0.93 three times by 1.335 and 4.9 min by 3.4 min.

page 175, lines 11ff. from top:

read

$$\frac{V_{aux.}}{1.07 \times (K_m)_{S1}} = 0.001335\ V_{aux} \quad \text{l/min},$$

and given a catalytic concentration of, for example, 1 kU of auxiliary enzyme per l,

$$t = \frac{2.3}{k_1} \times \lg \frac{[S_1]_0}{[S_1]_t} = \frac{2.3}{1.335} \times \lg 10^2 = 3.4\,\text{min}.$$

page 203, line 9 from top:

read consumption

page 207, line 11 from top:

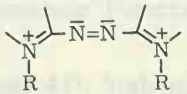
read this oxygenase

page 207, line 22 from top:

read observation

page 214, formula bottom, right part:

read



page 223, line 18 from bottom:

read $\varepsilon = 13.6 \times 10^2\ \text{l} \times \text{mol}^{-1} \times \text{mm}^{-1}$

page 224, line 4 from bottom:

read Vol. V

page 334, Table 3:

read Fluorescein isothiocyanate

page 352, line 24 from top:

read in eqn. *v* instead of ν

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page 388, lines 13, 14 from top:

read $= \frac{0.0592}{n_X} \log \frac{(c_X)_1}{(c_X)_2}$ V

The above mentioned errata have been eliminated in the second printing of volume I, delivered since February 27, 1986.

page 16, last line:

read lutenizing hormone

page 17, table 1, line "thyroid hormones":

read triiodothyronine

page 145, Fig. 1, ordinate:

replace c terms by [S] terms

page 343, line 11 from top:

read composition of the reagent

page 422, line 11 from top:

read catalase (instead of catalyse)

Volume II

page IX, line 4 from bottom:

read Specimens instead of Samples

page 24, lines 12, 13 from bottom:

read polyvinyl polypyrrolidone

page 159, line 11 from top:

read NAD^+ instead of MAD^+

page 159, line 10 from bottom:

read 0.01 ml GlDH ... 4.3 kU/l

page 163, line 10 from top, between "37°C" and "measurement":

read volume of colour reaction 5 ml; final volume 10 ml;

page 165, line 14 from top:

read k_1 ($l \times mol^{-1} \times s^{-1}$)

page 165, line 20 from top:

read k_4 ($l \times mol^{-1} \times s^{-1}$)

page 167, line 11 from top:

read 3,5-dinitrosalicylic acid

page 197

Shift the paragraph "Purity required as enzyme label for enzyme-immunoassay" to page 198 and insert it between the paragraphs "Purity required" and "References".

page 223, line 11 from bottom:

read stability instead of specificity

page 248, line 5 from top:

read pH 4.5 instead of pH 8

page 287, line 15 from top:

read Betainaldehyde + O_2 + H_2O

page 299, line 17 from top:

read borate 93 mmol/l

page 322, line 2 from top:

read Urate

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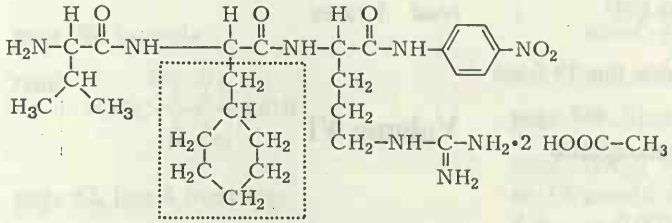
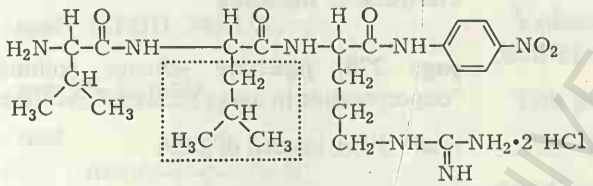
page 392, line 7 from top:

read



page 392, line 4 from bottom:

read



page 500, line 13 from bottom:

insert m_s before "Mass of substance, g"

dissolve 1.47 mg FH_4 with 0.9 ml $KHCO_3$ solution (6), add 0.1 ml 2-mercaptoethanol solution (2).

Volume III

page XII, line 3 from top:

read other than

page 115, pipetting scheme, right-hand column:

read TEA 107 mmol/l,
NADH 0.40 mmol/l,
fructose 400 mmol/l

page 212, line 6 from top:

read acetate instead of urate

page 315, lines 1 and 2 are missing. They should read:

pages 420 and 446, solution (2):

omit last sentence "Freeze in aliquots..."

pages 421 and 447, Stability of solutions lines 2ff.:

read Solution (2) (2-oxoglutarate) is stable for at least 21 days at 4 °C; do not keep at $\leqslant -20$ °C. Solution (5) (pyridoxal phosphate) is stable ...

page 433, ref. [11]:

read Crit. Rev. Clin. Lab. Sci. *21*, 99–186 (1984).

page 498, solution (9):

read 60 kU/l instead of 600 U/l

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page 500, pipetting scheme, column "concentration in assay mixture", for LDH

read 6 kU/l instead of 60 U/l

page 600, right-hand column, line 19 from bottom:

read Glutamate-oxaloacetate transaminase (cf. Aspartate ...)

Volume IV

page XIX, left-hand column, line 16 from top:

read *p.* 338

page 329, line 13 from bottom, after "with water":

add dissolve 136 mg KH_2PO_4 in this solution.

page 330, pipetting scheme, column "concentration in assay mixture", for P_i:

read 0.9 mmol/l instead of 1 µmol/l

page 392, top right-hand column, last line:

read Mg Megagram instead of mg Megagram

Volume V

page 255, pipetting scheme, column "Pipette successively into cooled tubes":

read [^{125}I]angiotensin I (9)

page 255, line 8 from bottom:

read Δc instead of ΔC

page 595, right-hand column, line 17 from bottom:

read Lyases

Volume VI

page 112, line 10 from bottom:

read Jerzy K. Kulski and Gertrude C. Buehring

page 270, pipetting scheme, column "concentration in assay mixture", last line:

read PCA instead of TCA

page 575, line 9 from top:

read *for molecular weight of pyruvate* 88.06

page 576, line 14 from bottom:

read ca. 0.6 µmol pyruvate

page 699, right-hand column:

place line 32 (-absorption spectrum) between lines 12 (Hyaluronate) and 13 (-degree ...);
place lines 33 (-determination) to 37 (-inhibition of degradation) between lines 13 (-degree ...) and 14 (-mean molecular weight);
insert as a new line after "Inulin": -determination 41

page 700, lines 23, 24 from top:

read 574 instead of 576 and 575 instead of 577

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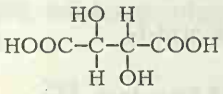
Volume VII

page 78, formula:

read



page 82, line 4 from top:

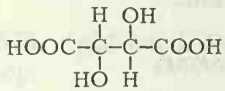
read L-TDH, 40 kU/l

page 83, right-hand column:

read L-TDH, 345 U/l

page 85, formula:

read



page 205, line 8 from top:

read mmol/l

page 291, line 15 from top:

read Flavin-adenine Dinucleotide

page 637, left-hand column, line 14 from top:

read - - end-point UV-method 186

Volume VIII

page 486, line 11 from bottom:

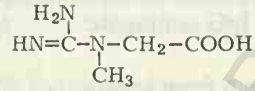
read $1.36\ l \times mmol^{-1} \times mm^{-1}$

page 487, line 10 from top:

read corresponding to 0.8 – 1.6 µmol carnitine per litre sample or 128 – 256 µg carnitine

page 488, formula for creatine:

read



page 500, lines 5 and 6 from top:

read $\Delta A_{365} = 0.006$ which corresponds to 12 µmol/l or 1.4 mg/l. The sensitivity $\Delta A_{365} = 0.002$ corresponds to 4 µmol/l or 0.5 mg/l

Volume IX

Title page:

read Editorial Consultant

page 41, line 10 from top:

read ... WHO do so on ...

page 57, eqn. (a), left-hand legend:

read Solid phase-bound rabbit anti-human albumin IgG

page 57, eqn. (a), right-hand legend:

read AP-rabbit anti-human albumin IgG conjugate

page 59, line 8 from top:

read ... purified rabbit anti-human albumin IgG

page 65, eqn. (a), left-hand legend:

read Solid phase-bound rabbit anti-human RBP IgG

page 65, eqn. (a), right-hand legend:

read AP-rabbit anti-human RBP IgG conjugate

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page 74, Appendix, line 1:

read Preparation of AP-rabbit anti-human RBP IgG conjugate:

page 238, line 6 from top:

read 50 to 500 units/ml

page 242, line 3 from top:

read ... 1.6 g NaH_2PO_4 ...

page 250, eqns. (a) and (b):

replace by eqns. (a) and (b) from page 257

page 257, eqns. (a) and (b):

replace by eqns. (a) and (b) from page 250

page 352, Fig. 2, abscissa:

read pg/0.1 ml

page 361, line 3:

read ... (cf. p. 356).

page 372, footnote:

read POD, donor:hydrogen-peroxide oxidoreductase

page 375, eqn., bottom right-hand legend:

delete Resin

page 388, line 16 from top:

read ... 10 mmol/l; KCl instead of HCl

page 394, Table 4, line "mid-cycle peak", right-hand column:

read 61.0 (46–76)

page 405, line 13 from top:

read has 110 amino acid

page 407 to 417, running heads:

read TSH

page 423, eqn. (c), right of arrow:

read penicilloic acid-I_2

page 425, line 13 from top:

read dissolve 3.56 g $Na_2HPO_4 \cdot 2H_2O$ in 100 ml water.

page 471, eqn.:

read $$\Delta F/\Delta F_0 = \frac{\Delta F - \Delta F_{\text{blank}}}{\Delta F_0 - \Delta F_{\text{blank}}} \times 100 \ \%$$

page 471, footnote:

read $$\frac{\Delta F/\Delta t}{\Delta F_0/\Delta t} = \Delta F/\Delta F_0$$

page 488, Fig. 1, abscissa:

read Antiserum dilution

page 518, line 8 from top:

read Sources of error: samples from haemolyzed blood cannot ...

page 518, line 9 from top:

read ... and lipaemic ...

page 525, lines 10, 11 from bottom:

read ... to give an increase in absorbance per unit time of $\Delta A/\Delta t = 0.075$

page 531, line 6 from bottom:

read twice ... $\Delta A/\Delta t$ ...

page 566, right-hand column, lines 13 and 18 from bottom:

read ... 447

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page 568, left-hand column, line 10 from bottom:

read ... 292

page 568, left-hand column, line 9 from bottom:

read ... 291

page 568, right-hand column, line 11 from top:

read ... 256

page 569, right-hand column, line 9 from top:

read - - of β-D-galactosidase ...

page 570, right-hand column, line 13 from top:

add 538.

Volume X

page 507, right-hand column, line 1 from top:

add 235

page 508, right-hand column, line 13 from bottom:

add 420

Volume XI

page 46, line 13 from bottom:

read adsorption

page 47, second line from bottom:

read phosphate, 18 mmol/l; NaCl, 132 mmol/l

page 79, footnote:

read ... at 492 nm of 1 000 per min ...

pages 234, 240, eqns. (a):

exchange symbol of AP-labelled sandwich complex with symbol of AP-labelled Ag-analyte-Ab_2 complex

page 280, line 10 from bottom:

read replaced by POD-protein A conjugate.

page 312, line 18 from bottom:

read ... assures a great reproducibility.

page 474, ref. [30]:

read J. Gen. Virol. *67*, 353–362 (1986).

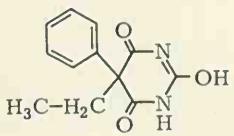
Volume XII

page 12, footnote:

read $\Delta A/\Delta t$ by 2.667

page 69, line 3, formula:

read



page 216, line 2 from bottom:

read (9*S*)-6-Methoxy-cinchonan-9-ol

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page 218, line 15 from bottom:

read *O*-desmethylquinidine instead of 2-desmethylquinidine

page 262, line 14 from top:

omit this line

page 273, first line:

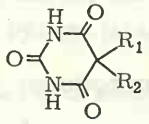
read G-6-P, 66 mmol/l

page 274, line 10 from top:

read G-6-P 3.7 mmol/l

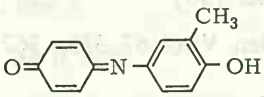
page 278, 4 formulae:

read



page 364, eqn. (b), right-hand side:

read



page 374, ref. [18]:

read J. Clin. Chem. Clin. Biochem. *24,* 155–159 (1986).

page 378, line 9 from bottom:

read β-NADH 0.48 mmol/l

page 379, line 6 from bottom:

read r = 0.998

page 381, reference [15]:

read Clin. Chim. Acta *155,* 209–220 (1986).

page 493, left-hand column, lines 1 and 2 from top:

omit 213

page 495, right-hand column, line 3 from top:

add 407, 412, 418

page 497, right-hand column, line 6 from bottom:

omit 213

page 497, line 16 from bottom:

read "first-pass" effect 233

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